

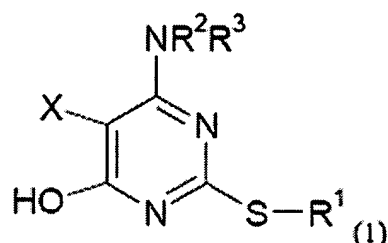
**10/525495**  
**DT01 Rec'd PCT/PTC 23 FEB 2005**

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A compound of formula (1), a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof:



wherein  $\text{R}^1$  is a group selected from  $\text{C}_{3-7}$ carbocyclyl,  $\text{C}_{1-8}$ alkyl,  $\text{C}_{2-6}$ alkenyl and  $\text{C}_{2-6}$ alkynyl; wherein the group is optionally substituted by 1, 2 or 3 substituents independently selected from fluoro, nitrile,  $-\text{OR}^4$ ,  $-\text{NR}^5\text{R}^6$ ,  $-\text{CONR}^5\text{R}^6$ ,  $-\text{COOR}^7$ ,  $-\text{NR}^8\text{COR}^9$ ,  $-\text{SR}^{10}$ ,  $-\text{SO}_2\text{R}^{10}$ ,  $-\text{SO}_2\text{NR}^5\text{R}^6$ ,  $-\text{NR}^8\text{SO}_2\text{R}^9$ , phenyl or heteroaryl; wherein phenyl and heteroaryl are optionally substituted by 1, 2 or 3 substituents independently selected from halo, cyano, nitro,  $-\text{OR}^4$ ,  $-\text{NR}^5\text{R}^6$ ,  $-\text{CONR}^5\text{R}^6$ ,  $-\text{COOR}^7$ ,  $-\text{NR}^8\text{COR}^9$ ,  $-\text{SR}^{10}$ ,  $-\text{SO}_2\text{R}^{10}$ ,  $-\text{SO}_2\text{NR}^5\text{R}^6$ ,  $-\text{NR}^8\text{SO}_2\text{R}^9$ ,  $\text{C}_{1-6}$ alkyl and trifluoromethyl;

wherein  $\text{R}^2$  is  $\text{C}_{3-7}$ carbocyclyl, optionally substituted by 1, 2 or 3 substituents independently selected from:

- (a) fluoro,  $-\text{OR}^4$ ,  $-\text{NR}^5\text{R}^6$ ,  $-\text{CONR}^5\text{R}^6$ ,  $-\text{COOR}^7$ ,  $-\text{NR}^8\text{COR}^9$ ,  $-\text{SR}^{10}$ ,  $-\text{SO}_2\text{R}^{10}$ ,  $-\text{SO}_2\text{NR}^5\text{R}^6$ ,  $-\text{NR}^8\text{SO}_2\text{R}^9$ ;
- (b) a 3-8 membered ring optionally containing 1, 2 or 3 atoms selected from O, S,  $-\text{NR}^8$  and whereby the ring is optionally substituted by  $\text{C}_{1-3}$ alkyl or fluoro; or

(c) phenyl or heteroaryl, each of which is optionally substituted by 1, 2 or 3 substituents independently selected from halo, cyano, nitro,  $-OR^4$ ,  $-NR^5R^6$ ,  $-CONR^5R^6$ ,  $-NR^8COR^9$ ,  $-SO_2NR^5R^6$ ,  $-NR^8SO_2R^9$ ,  $C_{1-6}$ alkyl and trifluoromethyl;

or  $R^2$  is a group selected from  $C_{1-6}$ alkyl,  $C_{2-6}$ alkenyl or  $C_{2-6}$ alkynyl wherein the group is substituted by 1, 2 or 3 substituents independently selected from hydroxy, amino,  $C_{1-6}$ alkoxy,  $C_{1-6}$ alkylamino, di( $C_{1-6}$ alkyl)amino,  $N$ -( $C_{1-6}$ alkyl)- $N$ -(phenyl)amino,  $N$ - $C_{1-6}$ alkylcarbamoyl,  $N,N$ -( $C_{1-6}$ alkyl)<sub>2</sub>carbamoyl,  $N$ -( $C_{1-6}$ alkyl)- $N$ -(phenyl)carbamoyl, carboxy, phenoxycarbonyl,  $-NR^8COR^9$ ,  $-SO_2R^{10}$ ,  $-SO_2NR^5R^6$  and  $-NR^8SO_2R^9$ ;

wherein  $R^3$  is hydrogen or  $R^2$ ;

$R^4$  is hydrogen or a group selected from  $C_{1-6}$ alkyl and phenyl, wherein the group is optionally substituted by 1 or 2 substituents independently selected from halo, phenyl,  $-OR^{11}$  and  $-NR^{12}R^{13}$ ;

$R^5$  and  $R^6$  are independently hydrogen or a group selected from  $C_{1-6}$ alkyl and phenyl wherein the group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, phenyl,  $-OR^{14}$ ,  $-NR^{15}R^{16}$ ,  $-CONR^{15}R^{16}$ ,  $-NR^{15}COR^{16}$ ,  $-SONR^{15}R^{16}$  and  $NR^{15}SO_2R^{16}$

or

$R^5$  and  $R^6$  together with the nitrogen atom to which they are attached form a 4- to 7-membered saturated heterocyclic ring system optionally containing a further heteroatom selected from oxygen and nitrogen atoms, which ring system may be optionally substituted by 1, 2 or 3 substituents independently selected from phenyl,  $-OR^{14}$ ,  $-COOR^{14}$ ,  $-NR^{15}R^{16}$ ,  $-CONR^{15}R^{16}$ ,  $-NR^{15}COR^{16}$ ,  $-SONR^{15}R^{16}$ ,  $NR^{15}SO_2R^{16}$  or  $C_{1-6}$ alkyl<sub>2</sub> (optionally substituted by 1 or 2 substituents independently selected from halo,  $-NR^{15}R^{16}$  and  $-OR^{17}$  groups);

$R^{10}$  is hydrogen or a group selected from  $C_{1-6}$ alkyl or phenyl, wherein the group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, phenyl,  $-OR^{17}$  and  $-NR^{15}R^{16}$ ;

and

each of  $R^7$ ,  $R^8$ ,  $R^9$ ,  $R^{11}$ ,  $R^{12}$ ,  $R^{13}$ ,  $R^{14}$ ,  $R^{15}$ ,  $R^{16}$ ,  $R^{17}$  is independently hydrogen,  $C_{1-6}$ alkyl or phenyl;

X is hydrogen, halo, cyano, nitro, hydroxy,  $C_{1-6}$ alkoxy<sub>2</sub> (optionally substituted by 1 or 2 substituents selected from halo,  $-OR^{11}$  and  $-NR^{12}R^{13}$ ),  $-NR^5R^6$ ,  $-COOR^7$ ,  $-CONR^5R^6$ ,  $-NR^8COR^9$ , thio, thiocyno, thio  $C_{1-6}$ alkyl<sub>2</sub> (optionally substituted by 1 or 2 substituents selected from halo,

$-\text{OR}^{17}$ ,  $-\text{COOR}^7$ ,  $-\text{NR}^{15}\text{R}^{16}$ ,  $-\text{CONR}^5\text{R}^6$ ,  $-\text{SO}_2\text{R}^{10}$ ,  $-\text{SO}_2\text{NR}^5\text{R}^6$ ,  $-\text{NR}^8\text{SO}_2\text{R}^{10}$  or a group selected from  $\text{C}_{3-7}$ carbocyclyl,  $\text{C}_{1-8}$ alkyl,  $\text{C}_{2-6}$ alkenyl or  $\text{C}_{2-6}$ alkynyl, wherein the group is optionally substituted by 1, 2 or 3 substituents independently selected from halo,  $-\text{OR}^4$ ,  $-\text{NR}^5\text{R}^6$ ,  $-\text{CONR}^5\text{R}^6$ ,  $-\text{COOR}^7$ ,  $-\text{NR}^8\text{COR}^9$ ,  $-\text{SR}^{10}$ ,  $-\text{SO}_2\text{R}^{10}$ ,  $-\text{SO}_2\text{NR}^5\text{R}^6$  and  $-\text{NR}^8\text{SO}_2\text{R}^9$ ; or a -phenyl, -heteroaryl, -thiophenyl, -thioheteroaryl, aminoheteroaryl, and thio  $\text{C}_{1-6}$ alkylheteroaryl group, all of which may be optionally substituted by 1, 2 or 3 substituents independently selected from halo, cyano, nitro,  $-\text{OR}^4$ ,  $-\text{NR}^5\text{R}^6$ ,  $-\text{CONR}^5\text{R}^6$ ,  $-\text{COOR}^7$ ,  $-\text{NR}^8\text{COR}^9$ ,  $-\text{SR}^{10}$ ,  $-\text{SO}_2\text{R}^{10}$ ,  $-\text{SO}_2\text{NR}^5\text{R}^6$ ,  $-\text{NR}^8\text{SO}_2\text{R}^9$ ,  $\text{C}_1\text{-C}_6$ alkyl, phenyl, heteroaryl or trifluoromethyl groups;

2. (Currently amended) A compound according to claim 1 or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof, wherein  $\text{R}^1$  is  $\text{C}_{1-8}$ alkyl optionally substituted by 1, 2 or 3 substituents independently selected from phenyl or heteroaryl, wherein phenyl and heteroaryl are optionally substituted by 1, 2 or 3 substituents independently selected from halo, cyano,  $-\text{OR}^4$ ,  $-\text{SR}^{10}$ ,  $\text{C}_{1-6}$ alkyl and trifluoromethyl.

3. (Currently amended) A compound according to claim 1 or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof, wherein  $\text{R}^2$  is  $\text{C}_{1-8}$ alkyl substituted by 1, 2 or 3 substituents independently selected from hydroxy, amino,  $\text{C}_{1-6}$ alkoxy,  $\text{C}_{1-6}$ alkylamino, di( $\text{C}_{1-6}$ alkyl)amino, *N*-( $\text{C}_{1-6}$ alkyl)-*N*-(phenyl)amino, *N*-( $\text{C}_{1-6}$ alkyl)carbamoyl, *N,N*-di( $\text{C}_{1-6}$ alkyl)carbamoyl, *N*-( $\text{C}_{1-6}$ alkyl)-*N*-(phenyl)carbamoyl, carboxy, phenoxycarbonyl,  $-\text{NR}^8\text{COR}^9$ ,  $-\text{SO}_2\text{R}^{10}$ ,  $-\text{SO}_2\text{NR}^5\text{R}^6$  and  $-\text{NR}^8\text{SO}_2\text{R}^9$ ; and wherein  $\text{R}^3$  is hydrogen;

4. (Currently amended) A compound according to claim 1 or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof, wherein  $\text{R}^4$ ,  $\text{R}^5$ ,  $\text{R}^6$ ,  $\text{R}^8$ ,  $\text{R}^9$  and  $\text{R}^{10}$  are independently hydrogen,  $\text{C}_{1-6}$ alkyl or phenyl.

5. (Currently amended) A compound according to claim 1 or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof, wherein X is hydrogen, halo, cyano, nitro,

hydroxy, thio, thiocyno,  $-\text{CONR}^5\text{R}^6$ , thio  $\text{C}_{1-6}\text{alkyl}_2$  (optionally substituted by 1 or 2 substituents selected from halo,  $-\text{OR}^{17}$ ,  $-\text{NR}^{15}\text{R}^{16}$ ,  $-\text{CONR}^5\text{R}^6$ ),  $-\text{NR}^8\text{SO}_2\text{R}^{10}$ ,  $\text{C}_{1-8}\text{alkyl}_2$  (optionally substituted by 1, 2 or 3 substituents independently selected from halo,  $-\text{OR}^4$ ,  $-\text{NR}^5\text{R}^6$ ,  $-\text{CONR}^5\text{R}^6$ ,  $-\text{COOR}^7$ ,  $-\text{NR}^8\text{COR}^9$ ,  $-\text{SR}^{10}$ ,  $-\text{SO}_2\text{R}^{10}$ ,  $-\text{SO}_2\text{NR}^5\text{R}^6$  and  $-\text{NR}^8\text{SO}_2\text{R}^9$ ), heteroaryl, thioheteroaryl or thio $\text{C}_{1-6}\text{alkylheteroaryl}$  all of which may be optionally substituted by 1, 2 or 3 substituents independently selected from halo, cyano, nitro,  $-\text{OR}^4$ ,  $-\text{NR}^5\text{R}^6$ ,  $-\text{CONR}^5\text{R}^6$ ,  $-\text{COOR}^7$ ,  $\text{NR}^8\text{COR}^9$ ,  $-\text{SR}^{10}$ ,  $-\text{SO}_2\text{R}^{10}$ ,  $-\text{SO}_2\text{NR}^5\text{R}^6$ ,  $-\text{NR}^8\text{SO}_2\text{R}^9$ ,  $\text{C}_{1-6}\text{alkyl}$  or trifluoromethyl.

6. (Currently amended) A compound according to claim 2 or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof, wherein  $\text{R}^1$  is benzyl optionally substituted by 1 or 2 substituents independently selected from fluoro, chloro, bromo, methoxy, methyl and trifluoromethyl.

7. (Currently amended) A compound according to claim 3 or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof, wherein  $\text{R}^2$  is  $\text{C}_{1-4}\text{alkyl}$ , substituted by 1, 2 or 3 substituents independently selected from hydroxy, amino,  $\text{C}_{1-6}\text{alkoxy}$ ,  $\text{C}_{1-6}\text{alkylamino}$ , and  $\text{di}(\text{C}_{1-6}\text{alkyl})\text{amino}$ ; and  $\text{R}^3$  is hydrogen.

8. (Currently amended) A compound according to claim 4 or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof, wherein X is hydrogen, fluoro, chloro, bromo, thiocyno,  $-\text{NR}^8\text{SO}_2\text{R}^9$  (where  $\text{R}^8$  is hydrogen and  $\text{R}^9$  is methyl),  $-\text{thioimidazolyl}$ ,  $-\text{thiotriazolyl}$ ,  $-\text{CONH}_2$ ,  $-\text{CONMe}_2$  or cyano.

9. (Original) A compound selected from the group consisting of:

2-(Benzylthio)-6- $\{[(1R)\text{-}2\text{-hydroxy-1-methylethyl}]\text{amino}\}$ -4-pyrimidinol,

2-(Benzylthio)-5-chloro-6- $\{[(1R)\text{-}2\text{-hydroxy-1-methylethyl}]\text{amino}\}$ -4-pyrimidinol,

2-[(3-Chlorobenzyl)thio]-6- $\{[(1R)\text{-}2\text{-hydroxy-1-methylethyl}]\text{amino}\}$ -4-pyrimidinol,

5-Chloro-2-[(3-chlorobenzyl)thio]-6- $\{[(1R)\text{-}2\text{-hydroxy-1-methylethyl}]\text{amino}\}$ -4-pyrimidinol,

2-[(3-Chlorobenzyl)thio]-4-hydroxy-6-{[(1R)-2-hydroxy-1-methylethyl]amino}-5-pyrimidinyl  
thiocyanate,  
N-(2-[(3-Chlorobenzyl)thio]-4-hydroxy-6-{[(1R)-2-hydroxy-1-methylethyl]amino}-5-  
pyrimidinyl)methanesulfonamide,  
2-[(3-Chlorobenzyl)thio]-5-fluoro-6-{[(1R)-2-hydroxy-1-methylethyl]amino}-4-pyrimidinol, 2-  
[(2,3-difluorobenzyl)thio]-4-hydroxy-6{[(1S)-2-hydroxy-1-methylethyl]amino}pyrimidine-5-  
carbonitrile,  
5-Chloro-2-[[[(2,3-difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-4-  
pyrimidinol,  
2-[[[(2,3-Difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-iodo-4-  
pyrimidinol,  
2-[[[(2,3-Difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-nitro-4-  
pyrimidinol,  
2-[[[(3-Chlorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-(1,3,4-  
thiadiazol-2-ylthio)-4-pyrimidinol,  
2-[[[(2,3-Difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-(1*H*-  
imidazol-2-ylthio)-4-pyrimidinol,  
2-[[[(2,3-Difluorophenyl)methyl]thio]-5-[[2-(dimethylamino)ethyl]thio]-6-[[[(1R)-2-hydroxy-1-  
methylethyl]amino]-4-pyrimidinol,  
1-[2-[[[(2,3-Difluorophenyl)methyl]thio]-4-hydroxy-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-  
pyrimidinyl]-4(1*H*)-pyridinethione,  
2-[[[(2,3-Difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-(4-  
pyridinylthio)-4-pyrimidinol,  
2-[[[(2,3-Difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-(1*H*-1,2,4-  
triazol-3-ylthio)-4-pyrimidinol,  
2-[[[(2,3-Difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-[(4-methyl-  
4*H*-1,2,4-triazol-3-yl)thio]-4-pyrimidinol,  
5-[(5-Amino-4*H*-1,2,4-triazol-3-yl)thio]-2-[[[(2,3-difluorophenyl)methyl]thio]-6-[[[(1R)-2-

hydroxy-1-methylethyl]amino]- 4-pyrimidinol,  
2-[[[(2,3-Difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-[[5-(4-pyridinyl)-1,3,4-oxadiazol-2-yl]thio]- 4-pyrimidinol,  
Ethyl[[2-[[[(2,3-difluorophenyl)methyl]thio]-4-hydroxy-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-pyrimidinyl]thio]- AcOH,  
2-[[2-[[[(2,3-Difluorophenyl)methyl]thio]-4-hydroxy-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-pyrimidinyl]thio]-*N*-methyl- acetamide,  
2-[[2-[[[(2,3-Difluorophenyl)methyl]thio]-4-hydroxy-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-pyrimidinyl]thio]-*N*-[2-(dimethylamino)ethyl]- acetamide,  
1-[[[2-[[[(2,3-Difluorophenyl)methyl]thio]-4-hydroxy-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-pyrimidinyl]thio]acetyl]-piperazine,  
2-[[[(2,3-Difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-[(4-methyl-2-oxazolyl)thio]- 4-pyrimidinol,  
2-[[[(2,3-Difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-5-[(1,2,4-oxadiazol-3-ylmethyl)thio]- 4-pyrimidinol,  
2-[(2,3-difluorobenzyl)thio]-4- {[[(1R)-1,2-dihydroxyethyl]amino} -6-hydroxypyrimidine-5-carboxamide,  
2-[(2,3-difluorobenzyl)thio]-6- {[[(1R)-2-hydroxy-1-methylethyl]amino} -5-(5-methyl-1,2,4-oxadiazol-3-yl)pyrimidin-4-ol,  
2-[(2,3-difluorobenzyl)thio]-6- {[[(1R)-2-hydroxy-1-methylethyl]amino} -5-(1,3-oxazol-5-yl)pyrimidin-4-ol,  
2-[(2,3-difluorobenzyl)thio]-4- {[[(1R)-1,2-dihydroxyethyl]amino} -6-hydroxy-*N,N*-dimethylpyrimidine-5-carboxamide,  
2-[(2,3-difluorobenzyl)thio]-5-fluoro-6- {[[(1R)-2-hydroxy-1-methylethyl]amino} -pyrimidin-4-ol,  
2-[(3,4-difluorobenzyl)thio]-5-fluoro-6- {[[(1R)-2-hydroxy-1-methylethyl]amino} -pyrimidin-4-ol,  
2-[(3-fluorobenzyl)thio]-5-fluoro-6- {[[(1R)-2-hydroxy-1-methylethyl]amino} pyrimidin-4-ol,  
or  
2-[(4-fluorobenzyl)thio]-5-fluoro-6- {[[(1R)-2-hydroxy-1-methylethyl]amino} pyrimidin-4-ol and

a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof.

10. (Cancelled)

11. (Currently amended) A method of treating, compound, pharmaceutically acceptable salt, solvate, or in vivo hydrolysable ester thereof according to any one of claims 1 to 9 for use as a medicament for the treatment of asthma, allergic rhinitis, COPD, inflammatory bowel disease, osteoarthritis, osteoporosis, rheumatoid arthritis, or psoriasis comprising administering a compound of claim 1, or a pharmaceutically acceptable salt, solvate or in vivo hydrolysable ester thereof.

12. (Currently amended) A method of treating cancer, comprising administering a compound of claim 1, or a pharmaceutically acceptable salt, solvate or in vivo hydrolysable ester thereof., ~~pharmaceutically acceptable salt, solvate, or in vivo hydrolysable ester thereof according to any one of claims 1 to 9 for use as a medicament for the treatment of cancer.~~

13. (Currently amended) A method of treating COPD comprising administering a compound of claim 1, or a pharmaceutically acceptable salt, solvate or in vivo hydrolysable ester thereof., ~~pharmaceutically acceptable salt, solvate, or in vivo hydrolysable ester thereof according to any one of claims 1 to 9 for use as a medicament for the treatment of COPD.~~

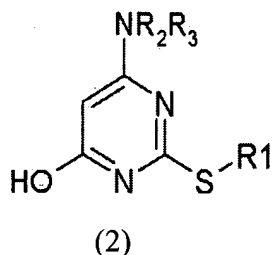
14. (Currently amended) A method of treating a disease or condition The use of a compound, pharmaceutically acceptable salt, solvate, or in vivo hydrolysable ester thereof according to any one of claims 1 to 9 in the manufacture of a medicament for the treatment of human diseases or conditions in which modulation of chemokine receptor activity is beneficial, comprising administering a compound of claim 1, or a pharmaceutically acceptable salt, solvate or in vivo hydrolysable ester thereof.

15-16. (Cancelled)

17. (Currently amended) A pharmaceutical composition comprising a compound, pharmaceutically acceptable salt, solvate, or in vivo hydrolysable ester thereof according to ~~any one of claims 1 to 9~~ claim 1; and a pharmaceutically-acceptable diluent or carrier.

18. (Currently amended) A process for the preparation of a compound of formula (1) as defined above which comprises

(a) treating a compound of formula (2):

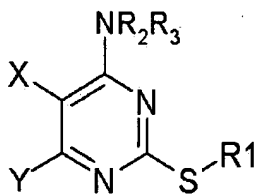


wherein R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> are as defined in claim 1, formula (1), with suitable electrophiles.

and optionally thereafter (i), (ii), (iii), (iv) or (v) in any order:

- i) removing any protecting groups;
- ii) converting the compound of claim 1, formula (1) into a further compound of claim 1, formula (1),
- iii) forming a salt;
- (iv) forming a prodrug
- (v) forming an in vivo hydrolysable ester; or

(b) , where X is 1,3-oxazol-5-yl by treating a compound of formula (4):





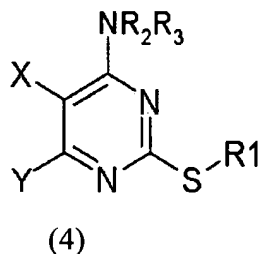
(4)

wherein  $R^1$ ,  $R^2$  and  $R^3$  are as defined in claim 1, formula (1), X is  $-CHO$  and Y is protected hydroxy by treatment with *p*-toluenesulfonylmethyl isocyanide and potassium hydroxide in refluxing methanol.

and optionally thereafter (i), (ii), (iii), (iv) or (v) in any order:

- i) removing any protecting groups;
- ii) converting the compound of claim 1, formula (1) into a further compound of claim 1, formula (1),
- iii) forming a salt;
- iv) forming a prodrug,
- v) forming an *in vivo* hydrolysable ester; or

(c) where X is CN by treating a compound of formula (4):



wherein  $R^1$ ,  $R^2$  and  $R^3$  are as defined in claim 1, formula (1), X is CN and Y is halogen by treatment

with potassium *tert*-butoxide in refluxing aqueous toluene.

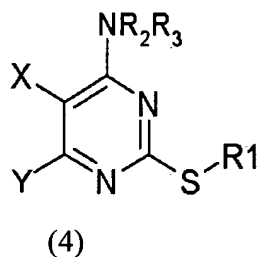
and optionally thereafter (i), (ii), (iii), (iv) or (v) in any order:

- i) removing any protecting groups,
- ii) converting the compound of claim 1, formula (1) into a further compound of claim 1, formula (1),
- iii) forming a salt;

- (iv) forming a prodrug,
- v) forming an *in vivo* hydrolysable ester; or

(d) where X is  $-\text{CONR}^5\text{R}^6$  by;

e) treating a compound of formula (4):



wherein  $\text{R}^1$ ,  $\text{R}^2$  and  $\text{R}^3$  are as defined in claim 1, formula (1), X is  $-\text{CONR}^5\text{R}^6$  and Y is halogen with a suitable base.

and optionally thereafter (i), (ii), (iii), (iv) or (v) in any order:

- i) removing any protecting groups;
- ii) converting the compound of claim 1, formula (1) into a further compound of claim 1, formula (1),
- iii) forming a salt;
- (iv) forming a prodrug,
- v) forming an *in vivo* hydrolysable ester.

19. (Currently amended) A ~~combination therapy~~ method of combination therapy which comprises administering a compound of claim 1, formula (1) or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof, or a pharmaceutical composition or formulation comprising a compound of claim 1, formula (1), concurrently or sequentially with other therapy and/or another pharmaceutical agent.

20. (Currently amended) ~~A combination therapy as claimed in~~ The method of claim 19,  
comprising treating for the treatment of asthma, allergic rhinitis, COPD, inflammatory bowel  
disease, irritable bowel syndrome, osteoarthritis, osteoporosis, rheumatoid arthritis, or psoriasis.

21. (Currently amended) ~~A combination therapy as claimed in~~ The method of claim 19,  
comprising treating for the treatment of cancer.

22. (Currently amended) A pharmaceutical composition which comprises a compound of  
claim 1, formula (1) or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester  
thereof, in conjunction with another pharmaceutical agent.

23. (Currently amended) A method of treating pharmaceutical composition as claimed in  
~~claim 22 for the treatment of~~ asthma, allergic rhinitis, COPD, inflammatory bowel disease,  
irritable bowel syndrome, osteoarthritis, osteoporosis, rheumatoid arthritis, or psoriasis,  
comprising administering the pharmaceutical composition of claim 22.

24. (Currently amended) A method of treating pharmaceutical composition as claimed in  
~~claim 22 for the treatment of~~ cancer, comprising administering the pharmaceutical composition  
of claim 22.